

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO But 1450 Alexandra, Virginia 22313-1450 www.waybo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/594,714	11/17/2008	Soung Bong Choi	K-0866	3550	
34410 KED & ASSOCIATES, LLP P.O. Box 8638			EXAMINER		
			MARKOFF, ALEXANDER		
Reston, VA 20	0195		ART UNIT	PAPER NUMBER	
			1711		
			MAIL DATE	DELIVERY MODE	
			02/24/2012	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.	Applicant(s)	
10/594,714	CHOI ET AL.	
Examiner	Art Unit	
ALEXANDER MARKOFF	1711	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed

after SIX (6) MONTHS from the mailing date of this communication.

- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133),

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any

earned patent term adjustment. See 37 CFR 1.704(b).

Status			
_			

1)🛛	Responsive to communication(s) filed on 31 January 2012.
2a)	This action is <b>FINAL</b> . 2b) ☑ This action is non-final.
3)	An election was made by the applicant in response to a restriction requirement set forth during the interview on
	; the restriction requirement and election have been incorporated into this action.
4)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

5) 🔯 (	Claim(s)	1-31 is/are	pendina i	n the	application.
--------	----------	-------------	-----------	-------	--------------

5a) Of the above claim(s) is/are withdrawn from consideration.

6) Claim(s) is/are allowed.

7) Claim(s) 1-8.14-20.22-24.26.28.30 and 31 is/are rejected.

8) Claim(s) 9-13,21,25,27 and 29 is/are objected to.

9) Claim(s) are subject to restriction and/or election requirement.

### Application Papers

10) The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on 29 September 2006 is/are; a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

12) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) 

✓ All b) 

✓ Some \* c) 

✓ None of:

Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. \_

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

# Attachment(s)

Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date
Information Disclosure Statement(s) (PTO/SB/08)	<ul> <li>iNotice of Informal Patent Application</li> </ul>
Paper No/s) Mail Data 6 papers	6) Othor:

Application/Control Number: 10/594,714 Page 2

Art Unit: 1711

#### DETAILED ACTION

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 30 and 31 are rejected under 35 U.S.C. 112, second paragraph, as being
indefinite for failing to particularly point out and distinctly claim the subject matter which
applicant regards as the invention.

The claims are indefinite because the term "the coupling portion" in claim 30 lacks proper antecedent basis.

### Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - Resolving the level of ordinary skill in the pertinent art.
  - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- Claims 1-8, 14-20, 22-24, 26, 28 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al (US 2004/0245878) in combination with EP 1094145.

Application/Control Number: 10/594,714

Art Unit: 1711

Kim et al teach a driving apparatus for a washing machine comprising a double rotor as claimed, a stator as claimed, with cores, coils, molded insert(s), an insulator, and a fixing portion(s) as claimed. See entire document, especially Figures 9A-c, 14A-B, 15, 19B and the related description, and the description at [0023-0039], [0102-182].

Kim et al do teach the details of the bearing housing and the details of the connections of the stator to the tub of the washing machine. They do not teach a mounting bracket in such connection.

EP 1094145 teaches a bearing housing, amounting bracket and connections of the stator to the tub as claimed. See entire document, especially Figures 2b and 9 and the related description.

It would have been obvious to an ordinary artisan at the time the invention was made to incorporate a structure of connections of the stator and the tub, including the inserted molded housing, mounting bracket, known structural details of the bracket, known structural connections of the housing and the stator as well as know positioning and reinforcing structures recited by EP 1094145 into the washing machine of Kim et al. with reasonable expectation of success in order to use known arrangements for their known functions because EP 1094145 teaches the referenced arrangements as known in the art of washing machines.

On the other hand it would have been obvious to an ordinary artisan at the time the invention was made to incorporate the double rotor and corresponding stator of Kim et al into the driving machine of EP 1094145 in order to obtain benefits disclosed by Kim et al, such as enhance productivity and a motor output.

As to claims 15 and 23: Kim et al do not specifically reinforcing ribs on the stator. However, providing reinforcing ribs of the structural parts of the washing machine was known in the art as evidenced by EP 1094145.

It would have been obvious to an ordinary artisan at the time the invention was made to provide structural parts of the modified apparatus of Kim et al with reinforcing ribs to enhance their structural strengths.

## Allowable Subject Matter

- 6. Claims 9-13, 21, 25, 27 and 29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- Claim 31 would be allowable if rewritten to overcome the rejection(s) under 35
   U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter: The prior at fails to teach or fairly suggest providing an auxiliary bracket, which has structure as claimed, between the stator and the mounting bracket.

Art Unit: 1711

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEXANDER MARKOFF whose telephone number is (571)272-1304. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alexander Markoff Primary Examiner Art Unit 1711

/Alexander Markoff/ Primary Examiner, Art Unit 1711